

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P459465

Luminaire Tested: **GLAN-SA9A-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39521 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

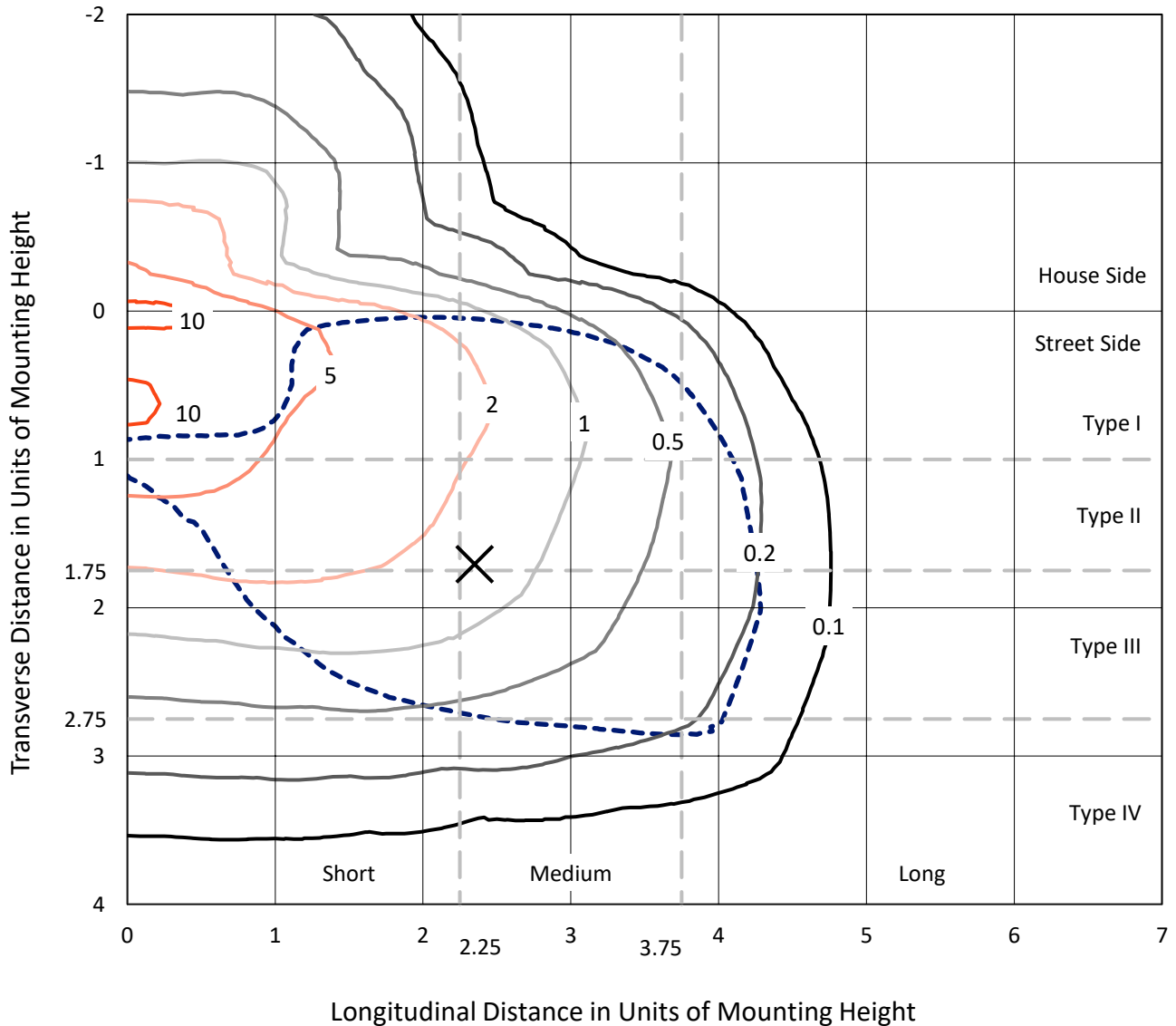
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

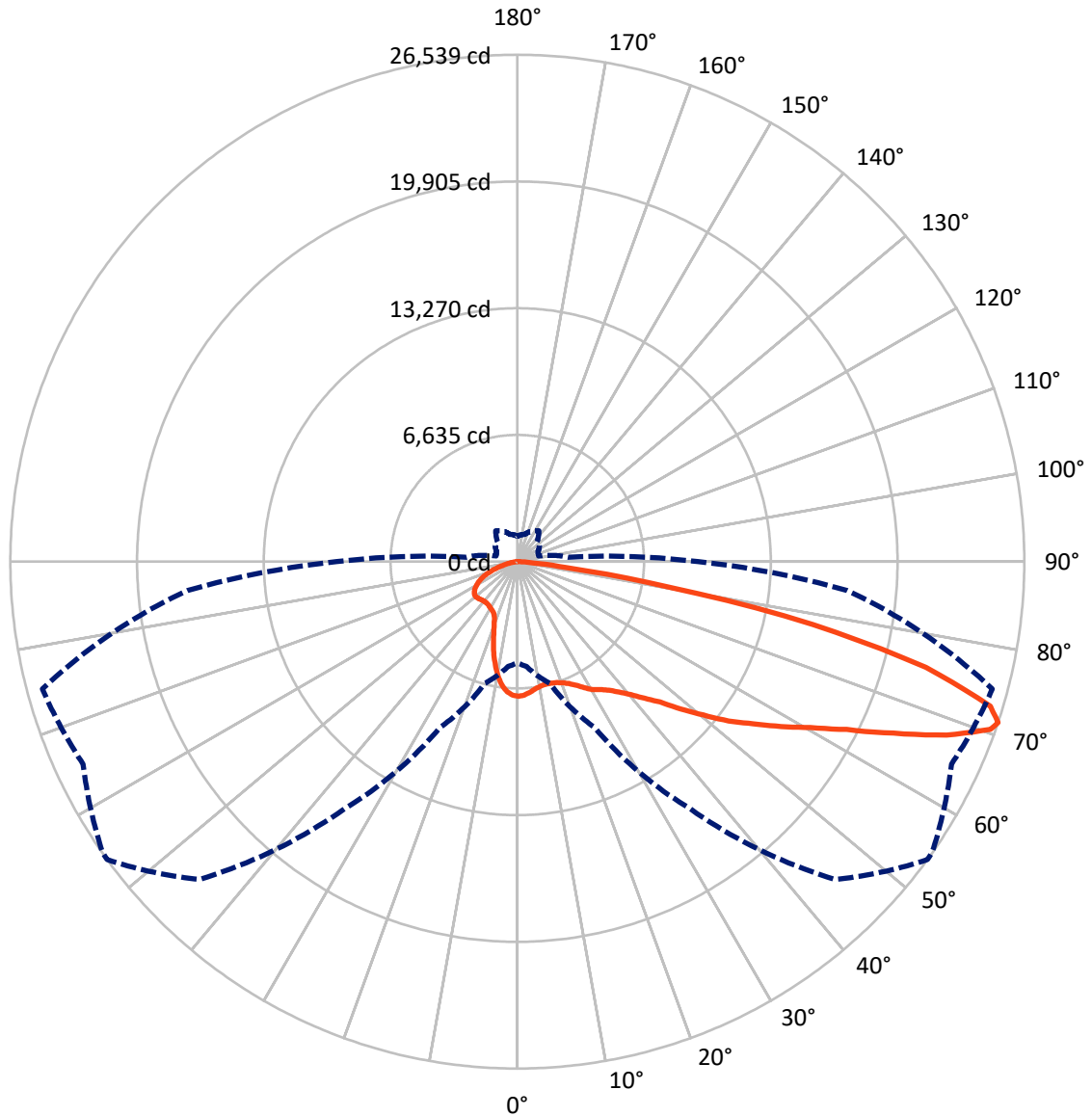
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7135.3 | 0.0 | 7135.3 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 32385.7 | 0.0 | 32385.7 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 39521.0 | 0.0 | 39521.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 628.4 | 1.6 |
| 10°-20° | 1659.2 | 4.2 |
| 20°-30° | 2762.6 | 7.0 |
| 30°-40° | 4085.0 | 10.3 |
| 40°-50° | 5753.9 | 14.6 |
| 50°-60° | 7704.7 | 19.5 |
| 60°-70° | 9711.2 | 24.6 |
| 70°-80° | 6632.7 | 16.8 |
| 80°-90° | 583.3 | 1.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 39521.0 | 100.0 |
| 0°-180° | 39521.0 | 100.0 |

Coefficient of Utilization



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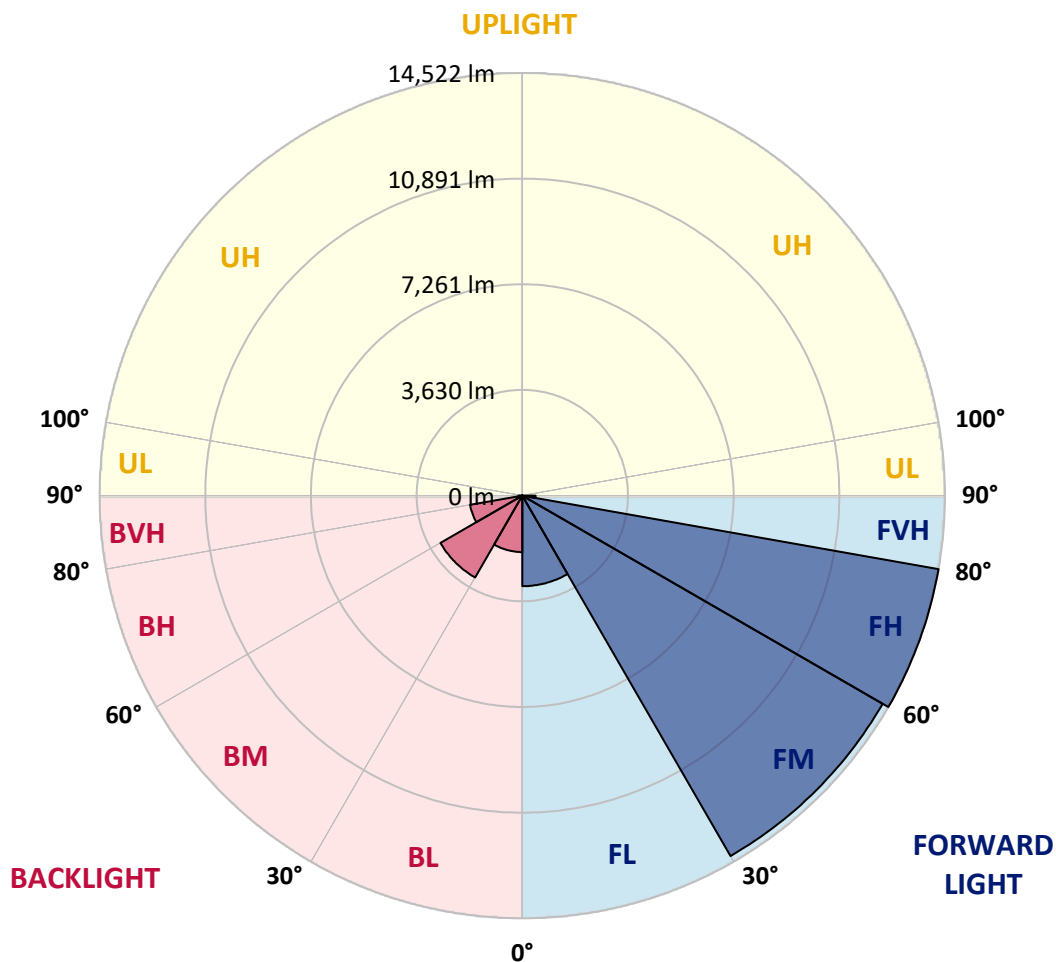
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3110.9 | 7.9 | | | |
| FM | (30°-60°) | 14297.3 | 36.2 | | | |
| FH | (60°-80°) | 14521.6 | 36.7 | | | G5 |
| FVH | (80°-90°) | 455.9 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1939.2 | 4.9 | B3/2500 | | |
| BM | (30°-60°) | 3246.3 | 8.2 | B3/5000 | | |
| BH | (60°-80°) | 1822.3 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 127.4 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 |
| 2.5° | 6812.0 | 6844.1 | 6852.6 | 6873.9 | 6918.8 | 6955.1 | 6991.4 | 6987.1 | 7038.3 | 7059.7 | 7078.9 |
| 5° | 6508.9 | 6517.4 | 6549.5 | 6592.2 | 6671.1 | 6771.5 | 6869.7 | 6871.8 | 6997.8 | 7098.1 | 7147.2 |
| 7.5° | 6286.9 | 6314.6 | 6336.0 | 6380.8 | 6464.1 | 6572.9 | 6728.8 | 6741.6 | 6965.7 | 7164.3 | 7268.9 |
| 10° | 6141.7 | 6173.7 | 6197.2 | 6252.7 | 6336.0 | 6457.7 | 6626.3 | 6649.8 | 6942.3 | 7268.9 | 7452.5 |
| 12.5° | 6009.4 | 6041.4 | 6062.7 | 6135.3 | 6244.2 | 6393.6 | 6583.6 | 6611.4 | 6950.8 | 7390.6 | 7653.1 |
| 15° | 6090.5 | 6116.1 | 6107.6 | 6128.9 | 6201.5 | 6372.3 | 6600.7 | 6628.4 | 6982.8 | 7508.0 | 7851.7 |
| 17.5° | 6451.3 | 6472.6 | 6402.2 | 6321.0 | 6286.9 | 6412.8 | 6654.1 | 6684.0 | 7046.9 | 7629.7 | 8054.5 |
| 20° | 6982.8 | 7040.5 | 6886.8 | 6705.3 | 6540.9 | 6558.0 | 6765.1 | 6797.1 | 7136.5 | 7751.3 | 8261.5 |
| 22.5° | 7674.5 | 7717.2 | 7529.3 | 7230.5 | 6927.3 | 6771.5 | 6931.6 | 6950.8 | 7271.0 | 7909.3 | 8487.8 |
| 25° | 8487.8 | 8513.4 | 8253.0 | 7868.7 | 7431.1 | 7136.5 | 7160.0 | 7194.2 | 7493.0 | 8088.6 | 8688.5 |
| 27.5° | 9277.7 | 9358.8 | 9057.8 | 8588.2 | 8011.8 | 7520.8 | 7473.8 | 7495.2 | 7734.3 | 8189.0 | 8827.3 |
| 30° | 10214.9 | 10208.5 | 9890.4 | 9346.0 | 8607.4 | 7939.2 | 7770.5 | 7766.3 | 7864.5 | 8238.1 | 8927.6 |
| 32.5° | 10962.0 | 11049.5 | 10737.9 | 10144.4 | 9288.4 | 8372.6 | 7975.5 | 7966.9 | 7964.8 | 8323.5 | 9077.0 |
| 35° | 11811.7 | 11824.5 | 11538.4 | 10940.7 | 10024.9 | 8916.9 | 8261.5 | 8218.8 | 8169.7 | 8507.0 | 9279.8 |
| 37.5° | 12571.6 | 12631.4 | 12368.8 | 11698.5 | 10748.5 | 9482.6 | 8654.3 | 8626.6 | 8477.2 | 8825.1 | 9604.3 |
| 40° | 13165.1 | 13209.9 | 13052.0 | 12413.7 | 11461.6 | 10093.2 | 9153.9 | 9102.6 | 8921.2 | 9346.0 | 10037.7 |
| 42.5° | 13359.4 | 13451.2 | 13513.1 | 13199.3 | 12281.3 | 10816.9 | 9768.7 | 9704.6 | 9565.9 | 10135.9 | 10537.2 |
| 45° | 13374.3 | 13519.5 | 13846.1 | 13861.0 | 13105.3 | 11683.6 | 10486.0 | 10441.1 | 10430.5 | 11147.7 | 11239.5 |
| 47.5° | 13261.2 | 13408.5 | 13957.1 | 14253.8 | 13839.7 | 12558.8 | 11521.3 | 11450.9 | 11457.3 | 12398.7 | 12027.3 |
| 50° | 12987.9 | 13163.0 | 13829.0 | 14505.7 | 14413.9 | 13468.2 | 12614.3 | 12590.8 | 12723.2 | 13826.9 | 12844.9 |
| 52.5° | 12473.4 | 12684.8 | 13696.7 | 14663.7 | 14840.9 | 14251.7 | 13856.8 | 13790.6 | 14125.7 | 15376.7 | 13739.4 |
| 55° | 11049.5 | 11367.6 | 13212.1 | 14751.2 | 15246.5 | 15001.0 | 14975.4 | 15094.9 | 15539.0 | 17067.5 | 14723.5 |
| 57.5° | 10306.6 | 10545.7 | 12159.6 | 14766.2 | 15758.8 | 15872.0 | 16281.9 | 16311.7 | 17088.8 | 18862.8 | 15835.7 |
| 60° | 9901.0 | 10112.4 | 11583.2 | 14668.0 | 16474.0 | 16950.0 | 17618.2 | 17725.0 | 18602.3 | 20807.6 | 16988.5 |
| 62.5° | 9546.7 | 9728.1 | 11237.4 | 14328.5 | 17280.9 | 18549.0 | 19349.5 | 19400.8 | 20320.8 | 22955.1 | 18126.3 |
| 65° | 8712.0 | 8919.1 | 10541.5 | 13989.1 | 17976.9 | 20547.1 | 21646.5 | 21586.8 | 22150.3 | 24808.1 | 18839.3 |
| 67.5° | 7587.0 | 7849.5 | 9241.4 | 12817.1 | 18320.6 | 22731.0 | 24233.9 | 24159.1 | 23956.3 | 26022.8 | 19044.2 |
| 70° | 6150.3 | 6291.2 | 7578.4 | 10791.2 | 16947.9 | 23877.4 | 26276.8 | 26197.8 | 25075.0 | 26182.9 | 18075.1 |
| 71° | 5292.1 | 5512.0 | 6598.6 | 9585.1 | 15805.8 | 23527.3 | 26539.4 | 26518.1 | 25077.1 | 25741.0 | 17345.0 |
| 72.5° | 4130.8 | 4265.3 | 5225.9 | 7426.9 | 13434.1 | 21537.7 | 25890.4 | 25971.6 | 24532.7 | 24513.5 | 15840.0 |
| 75° | 2613.0 | 2672.7 | 3279.0 | 4372.0 | 7371.3 | 15252.9 | 22101.2 | 22321.1 | 21783.2 | 20064.7 | 11779.6 |
| 77.5° | 1517.8 | 1594.7 | 1964.0 | 2576.7 | 3185.1 | 8278.6 | 15814.3 | 16053.4 | 15135.5 | 11047.4 | 4822.4 |
| 80° | 883.8 | 969.2 | 1293.7 | 1496.5 | 1462.3 | 3071.9 | 8052.3 | 8460.1 | 6553.7 | 2790.1 | 1353.4 |
| 82.5° | 491.0 | 548.6 | 909.4 | 911.5 | 779.2 | 1003.3 | 2534.0 | 2651.4 | 1870.1 | 1125.0 | 552.9 |
| 85° | 356.5 | 403.5 | 587.1 | 531.6 | 373.6 | 431.2 | 881.7 | 924.4 | 755.7 | 473.9 | 179.3 |
| 87.5° | 126.0 | 179.3 | 322.3 | 256.2 | 102.5 | 89.7 | 254.0 | 207.1 | 192.1 | 132.4 | 40.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GLAN-SA9A-735-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 | 7051.1 |
| 2.5° | 7089.6 | 7093.8 | 7072.5 | 7034.1 | 6995.6 | 6946.5 | 6891.0 | 6848.3 | 6829.1 | 6827.0 | 6824.8 |
| 5° | 7166.4 | 7177.1 | 7096.0 | 6976.4 | 6844.1 | 6681.8 | 6543.1 | 6385.1 | 6344.5 | 6280.5 | 6299.7 |
| 7.5° | 7290.2 | 7283.8 | 7123.7 | 6869.7 | 6560.1 | 6216.4 | 5926.1 | 5757.5 | 5582.4 | 5533.3 | 5535.4 |
| 10° | 7467.4 | 7426.9 | 7123.7 | 6651.9 | 6135.3 | 5625.1 | 5219.5 | 4963.3 | 4824.6 | 4709.3 | 4666.6 |
| 12.5° | 7655.3 | 7552.8 | 7055.4 | 6346.7 | 5588.8 | 4963.3 | 4527.8 | 4182.0 | 4092.3 | 3998.4 | 4000.6 |
| 15° | 7834.6 | 7663.8 | 6920.9 | 5917.6 | 4999.6 | 4256.7 | 3834.0 | 3627.0 | 3599.2 | 3609.9 | 3607.8 |
| 17.5° | 7996.8 | 7742.8 | 6716.0 | 5439.4 | 4312.2 | 3650.4 | 3426.3 | 3441.2 | 3516.0 | 3569.3 | 3575.7 |
| 20° | 8161.2 | 7789.8 | 6410.7 | 4799.0 | 3663.3 | 3283.3 | 3291.8 | 3409.2 | 3522.4 | 3594.9 | 3605.6 |
| 22.5° | 8317.0 | 7811.1 | 6052.1 | 4179.9 | 3193.6 | 3127.4 | 3253.4 | 3379.3 | 3490.3 | 3560.8 | 3571.5 |
| 25° | 8419.5 | 7762.0 | 5544.0 | 3533.0 | 2963.1 | 3071.9 | 3204.3 | 3311.0 | 3405.0 | 3477.5 | 3494.6 |
| 27.5° | 8447.3 | 7604.0 | 4914.2 | 3010.0 | 2856.3 | 3018.6 | 3140.2 | 3219.2 | 3291.8 | 3360.1 | 3372.9 |
| 30° | 8432.3 | 7371.3 | 4222.6 | 2702.6 | 2794.4 | 2956.7 | 3050.6 | 3108.2 | 3195.7 | 3249.1 | 3259.8 |
| 32.5° | 8408.8 | 7100.2 | 3501.0 | 2538.2 | 2743.2 | 2899.0 | 2954.5 | 3005.8 | 3003.6 | 2982.3 | 2997.2 |
| 35° | 8417.4 | 6775.7 | 2916.1 | 2440.0 | 2698.3 | 2856.3 | 2903.3 | 2839.2 | 2655.6 | 2647.1 | 2638.6 |
| 37.5° | 8462.2 | 6455.5 | 2491.3 | 2371.7 | 2674.9 | 2849.9 | 2875.5 | 2580.9 | 2418.7 | 2344.0 | 2324.8 |
| 40° | 8577.5 | 6081.9 | 2211.6 | 2320.5 | 2672.7 | 2899.0 | 2749.6 | 2450.7 | 2139.0 | 1993.9 | 1983.2 |
| 42.5° | 8731.2 | 5714.8 | 2040.8 | 2288.5 | 2698.3 | 2973.7 | 2698.3 | 2267.1 | 1927.7 | 1842.3 | 1829.5 |
| 45° | 8959.6 | 5294.2 | 1946.9 | 2273.5 | 2736.8 | 3001.5 | 2681.3 | 2132.6 | 1842.3 | 1774.0 | 1774.0 |
| 47.5° | 9217.9 | 4892.9 | 1895.7 | 2262.9 | 2785.9 | 2982.3 | 2529.7 | 2089.9 | 1801.7 | 1810.3 | 1850.8 |
| 50° | 9474.1 | 4544.9 | 1857.2 | 2239.4 | 2828.6 | 2971.6 | 2467.8 | 2087.8 | 1812.4 | 1921.3 | 1993.9 |
| 52.5° | 9770.8 | 4299.4 | 1810.3 | 2200.9 | 2828.6 | 2903.3 | 2448.6 | 2130.5 | 1842.3 | 1874.3 | 1906.3 |
| 55° | 10129.5 | 4222.6 | 1750.5 | 2117.7 | 2777.3 | 2732.5 | 2437.9 | 2192.4 | 1863.7 | 1788.9 | 1801.7 |
| 57.5° | 10603.4 | 4346.4 | 1692.9 | 2013.1 | 2659.9 | 2555.3 | 2433.6 | 2209.5 | 1814.6 | 1752.6 | 1739.8 |
| 60° | 11154.2 | 4591.9 | 1675.8 | 1906.3 | 2499.8 | 2403.7 | 2408.0 | 2160.4 | 1746.2 | 1682.2 | 1692.9 |
| 62.5° | 11540.5 | 4739.2 | 1665.1 | 1825.2 | 2324.8 | 2237.2 | 2346.1 | 2100.6 | 1716.4 | 1660.8 | 1671.5 |
| 65° | 11540.5 | 4559.9 | 1566.9 | 1701.4 | 2098.5 | 2036.6 | 2271.4 | 2025.9 | 1677.9 | 1613.9 | 1603.2 |
| 67.5° | 11102.9 | 4036.8 | 1417.5 | 1515.7 | 1848.7 | 1808.1 | 2166.8 | 1936.2 | 1620.3 | 1571.2 | 1545.6 |
| 70° | 9963.0 | 3061.3 | 1229.6 | 1297.9 | 1532.8 | 1569.1 | 2032.3 | 1814.6 | 1524.2 | 1464.4 | 1426.0 |
| 71° | 9461.3 | 2666.3 | 1150.6 | 1186.9 | 1411.1 | 1464.4 | 1968.3 | 1763.3 | 1481.5 | 1396.1 | 1327.8 |
| 72.5° | 8494.2 | 2245.8 | 1031.1 | 1046.0 | 1206.1 | 1302.2 | 1833.8 | 1665.1 | 1400.4 | 1278.7 | 1201.9 |
| 75° | 6453.4 | 1639.5 | 830.4 | 821.9 | 892.3 | 1033.2 | 1552.0 | 1483.7 | 1227.5 | 1063.1 | 1018.3 |
| 77.5° | 2788.0 | 892.3 | 621.2 | 627.6 | 606.3 | 783.5 | 1221.1 | 1274.5 | 1052.4 | 864.6 | 824.0 |
| 80° | 845.4 | 514.5 | 424.8 | 433.4 | 405.6 | 525.2 | 860.3 | 999.1 | 845.4 | 672.5 | 616.9 |
| 82.5° | 433.4 | 307.4 | 290.3 | 286.1 | 258.3 | 296.7 | 520.9 | 683.1 | 604.1 | 420.5 | 371.4 |
| 85° | 187.9 | 164.4 | 143.0 | 138.8 | 121.7 | 106.7 | 185.7 | 341.6 | 320.2 | 234.8 | 224.2 |
| 87.5° | 47.0 | 42.7 | 27.8 | 25.6 | 14.9 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)